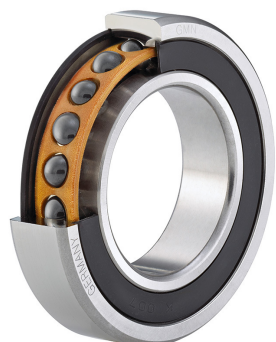


Spindle ball bearing HY KH 6013 C TA P4+

08.05.2024



Components

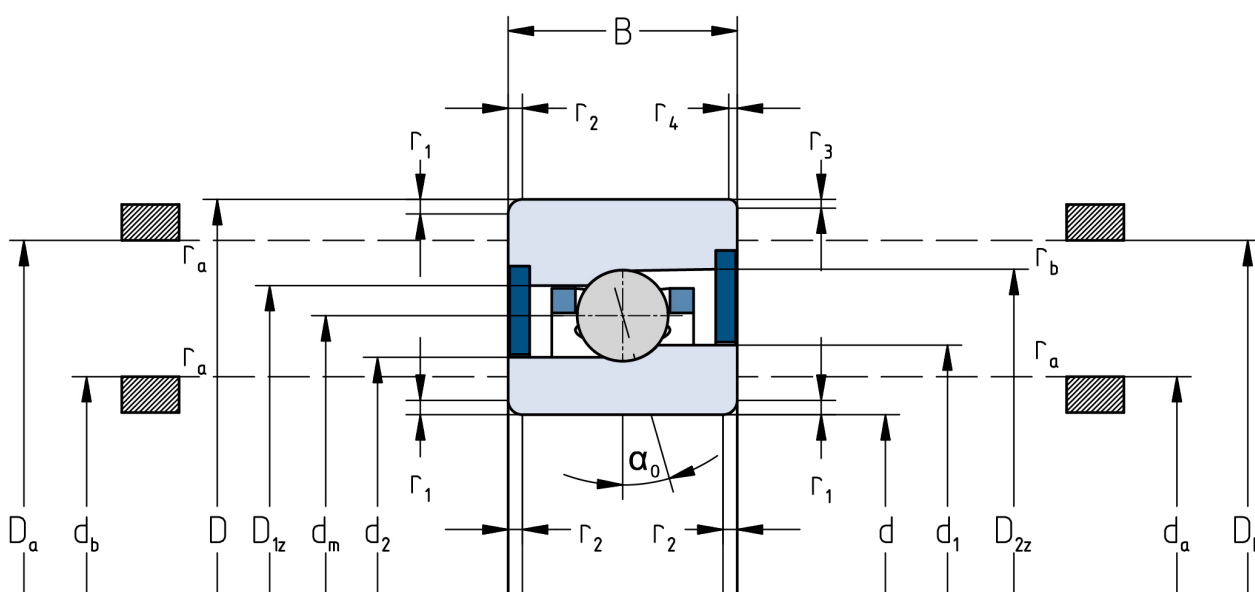
Bearing designation:	HY KH 6013 C TA
Bearing design:	KH
Series / size:	6013
Ball material:	Ceramic
Cage:	TA
Seal:	2RZ optional (with grease)
Precision:	P4+
Main dimensions [d x D x B]:	65 x 100 x 18 mm

Load data

Static load capacity	C_{0r} : 12100 N
Dynamic load capacity	C_r : 17300 N
Fatigue load limit	C_U : 458 N
Speed limit	n_{grease} : 24000 1/min
Speed limit	n_{oil} : 32000 1/min
Light preload	L: 90 N
Axial rigidity	C_{ax} : 66 N/ μ m
Medium preload	M: 260 N
Axial rigidity	C_{ax} : 99 N/ μ m
Heavy preload	S: 520 N
Axial rigidity	C_{ax} : 130 N/ μ m
Spring preload	Ff: 570 N (for n_{max})

Geometrical Data

Bore diameter	d: 65 mm	Oiling nozzle position	d_T : 79.3 mm
Outer diameter	D: 100 mm	Pitch circle diameter	d_m : 81.5 mm
Width of single bearing	B: 18 mm	Inner diameter of outer ring	D_1 : 86.5 mm
Ball diameter	D_w : 7.938 mm	Undercut of associated component	$r_{a \max}$: 1 mm
Number of balls	Z: 25	Undercut of associated component (open side)	$r_{b \max}$: 1 mm
Chamfer (min)	$r_{1,2 \min}$: 1.1 mm	Abutment diameter inner ring	$d_{a,b \min}$: 70.6 mm
Chamfer (min), open side	$r_{3,4 \min}$: 1 mm	Abutment diameter outer ring	$D_{a,b \max}$: 95.1 mm
Outer diameter of inner ring	d_1 : 76.9 mm	Inner diameter of outer ring (open side)	D_2 : 89.6 mm
Outer diameter of inner ring (open side)	d_2 : 75.7 mm	Bearing weight	m: 0.425 kg
		Contact angle	Alpha 0: 17°



The given speed limits apply to individual bearings with spring preload. Correction factors must be considered for all properties which deviate from this.